

FIG. 1

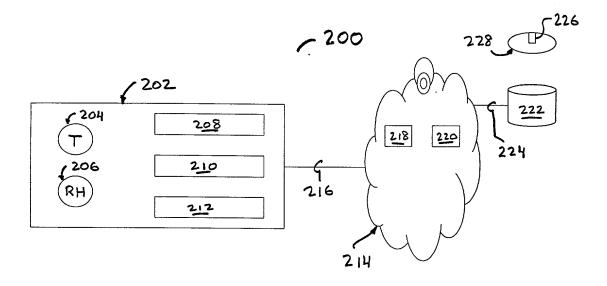


FIG. 2A

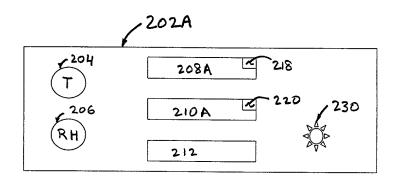


FIG. 2B

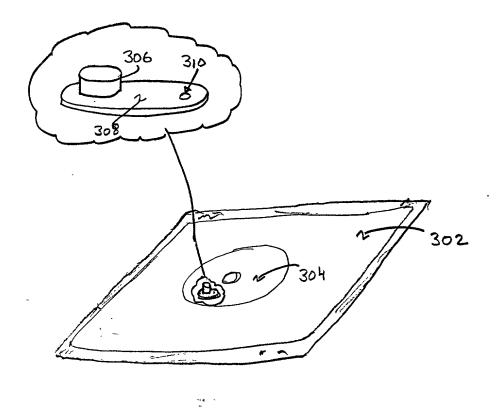


FIG. 3A

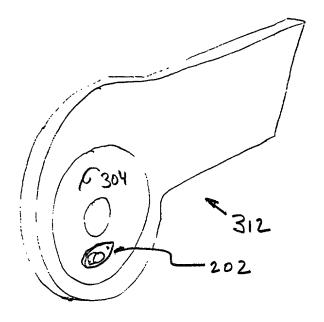


FIG. 3B

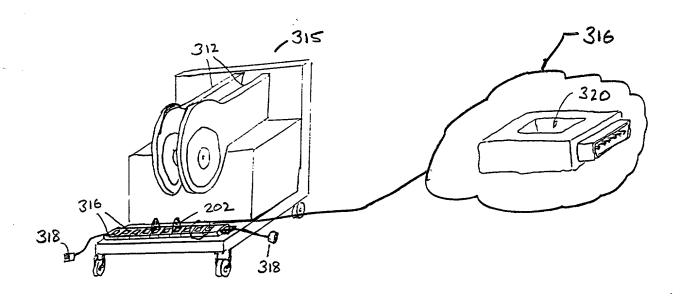


FIG.3C

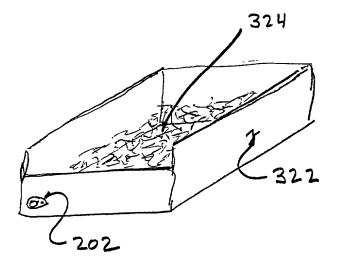
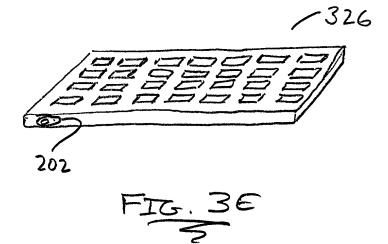


FIG. 3D



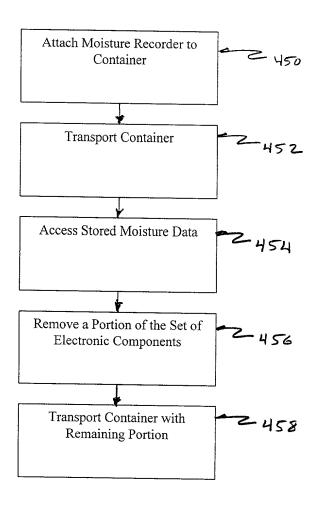
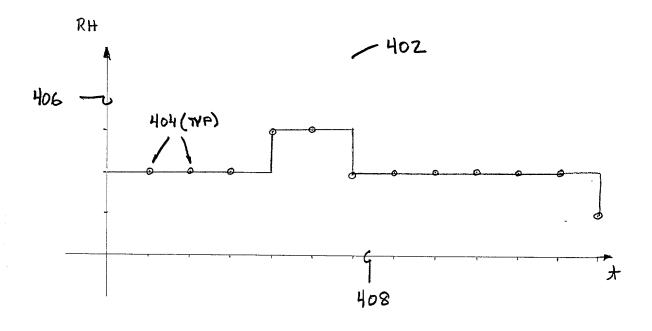


FIG.4



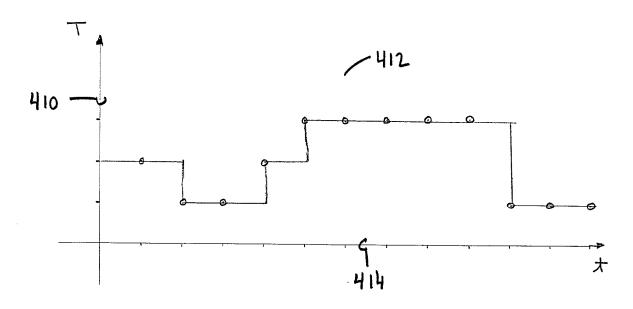
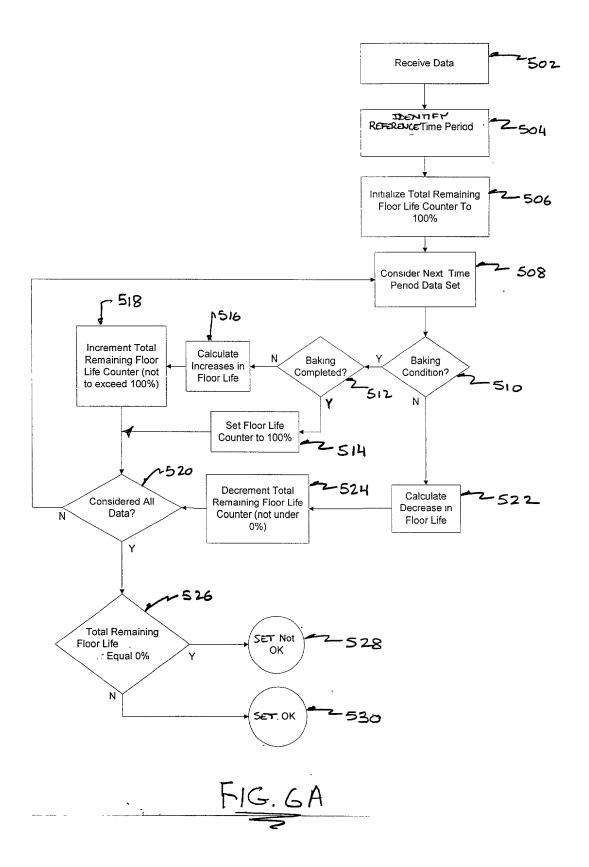


FIG.5



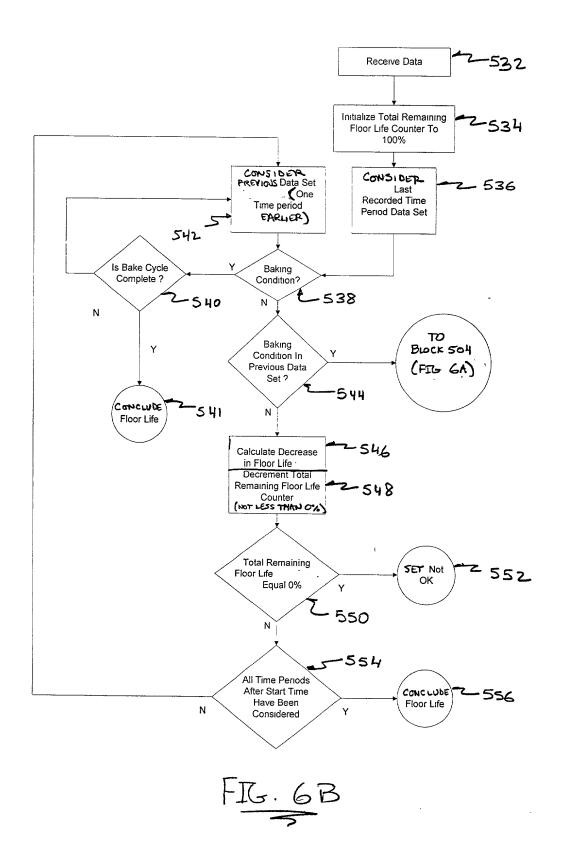


Table 5 Recommended Equivalent Total Floor Life (days) @ 20°C, 25°C & 30°C For ICs with Novolac, Biphenyl and Multifunctional Epoxies (Reflow at same temperature at which the component was classified)

(nenor	at same tem	perature	at will					lumidity			17- 6-11
Body Thickness (t)	M.S. Level	20%	30%	40%	50%	60%	70%	80%	90%		F 604
	Level 2a	80 80 80	60 78 103	41 53 69	33 42 57	28 36 47	10 14 19	7 10 13	6 8 10	30°C 25°C 20°C	
t≥3.1 mm	Level 3	10 13 17	9 11 14	8 10 13	7 9 12	7 9 12	5 7 10	4 6 8	4 5 7	30°C 25°C 20°C	-
PQFPs >84 pins, .PLCCs (square) MQFPs	Level 4	4 5 7	4 5 7	4 5 7	3 5 7	3 4 6	3 3 5	2 3 4	2 3 4	30°C 25°C 20°C	
or PBGAs	Level 5	3 5 7	3 4 6	2 4 5	2 3 5	2 3 4	2 2 3	1 2 3	1 2 3	30°C 25°C 20°C	
-	Level 5a	1 2 4	1 2 3	1 2 3	1 2 3	1 2 2	1 1 2	1 1 2	1 1 2	30°C 25°C 20°C	
	Level 2a	80 80	80 80 80	86 148 ∞	39 51 69	28 37 49	4 6 8	3 4 5	2 3 4	30°C 25°C 20°C	
t ≤2.1 mm t <3.1 mm	Level 3	19 25 32	12 15 19	9 12 15	8 10 13	7 9 12	3 5 7	2 3 5	2 3 4	30°C 25°C 20°C	
PLCCs (rectangular) 18-32 pins SOICs (wide body)	Level 4	5 7 9	4 5 7	4 5 6	3 4 6	3 4 5	2 3 4	2 2 3	1 2 3	30°C 25°C 20°C	
SOICs ≥20 pins, PQFPs ≤80 pins	Level 5	3 4 5	3 3 5	2 3 4	2 3 4	2 3 4	1 2 3	1 1 3	1 1 2	30°C 25°C 20°C	
	Level 5a	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 1 2	0.5 1 2	0.5 1 1	30°C 25°C 20°C	
	Level 2a	∞ ∞ ∞	∞ ∞ ∞	& & &	& & &	28 ∞ ∞	1 2 2	1 1 2	1 1 1	30°C 25°C 20°C	
t <2.1 mm	Level 3	00 00 00	00 00 00	∞ ∞ ∞	11 14 20	7 10 13	1 2 2	1 1 2	1 1 1	30°C 25°C 20°C	
TSOPs, SOICs <18 pins TQFPs or	Level 4	80 80 80	9 12 17	5 7 9	4 5 7	3 4 6	1 2 2	1 1 2	1 1 1	30°C 25°C 20°C	
TBGAs	Level 5	13 18 26	5 6 8	3 4 6	2 3 5	2 3 4	1 2 2	1 1 2	1 1 1	30°C 25°C 20°C	
	Level 5a	3 5 6	2 3 4	1 2 3	1 2 2	1 2 2	1 1 2	1 1 2 2	0.5 1 1	30°C 25°C 20°C	
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FIG.7

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Table 2 Reference Conditions for Drying Components that were Exposed to Conditions ≤60% RH (User Bake: Floor Life Begins Counting at Time = 0 After Bake)

Package Thickness	Level	Bake @ 125°C	Bake @ 40°C ≤5% RH
	2a	4 hours	5 days
	3	7 hours	11 days
≤1.4 mm	4	9 hours	13 days
	5	10 hours	14 days
	5a	14 hours	19 days
	2a	18 hours	21 days
≤2.0 mm	3	24 hours	33 days
	4	31 hours	43 days
	5	37 hours	52 days
	5a	48 hours	68 days
	2a	48 hours	67 days
į	3	48 hours	67 days
≤4.0 mm	4	48 hours	68 days
į	5	48 hours	68 days
	5a	48 hours	68 days

FIG. 8

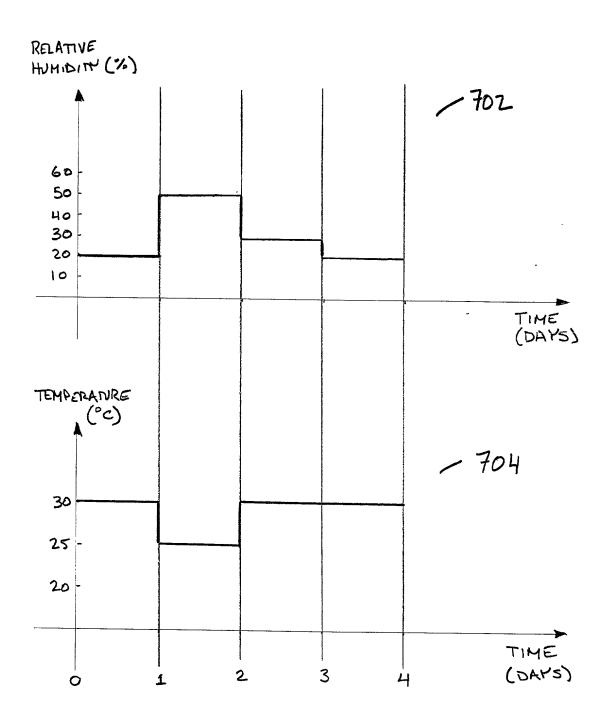


FIG. 9